

PCT

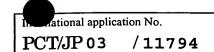
INTERNATIONAL PRELIMINARY REPORTON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

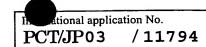
Applicant's or agent's file reference 03R00620	FOR FURTHER ACT	ION	See Form PCT/IPEA/416			
International application No.	International filing date (a	lay/month/year)	Priority date (day/month/)	vear)	,	
PCT/JP 03 / 11794	16.09.	2003	24.10.2	2002	2	
International Patent Classification (IPC) of Int.Cl 7 H04N1/028, H041						
Applicant SHARP KABUSHIKI K	KAISHA					
This report is the international p Authority under Article 35 and to	preliminary examination r	eport, established by according to Article	this International Preliming 36.	nary E	xamining	
2. This REPORT consists of a total	of 3 sheets, in	ncluding this cover sl	neet.			
3. This report is also accompanied	by ANNEXES, comprising	g:				
a. a total of	_ sheets, as follows:					
sheets of the do and/or sheets of Administrative	ontaining rectifications au	rawings which have b thorized by this Auth	een amended and are the ba ority (see Rule 70.16 and So	sis of tection 6	his report 607 of the	
sheets which s beyond the dis Supplemental	closure in the international	t which this Authorit	y considers contain an amer as indicated in item 4 of Bo	ndment x No. I	that goes and the	
containing a sequence	e and number of electroni e listing and/or tables rela lating to Sequence Listing	ted thereto, in comp	uter readable form only, as the Administrative Instructi	indica ons).	ted in the	
This report contains indications in	relating to the following ite	ems:				
Box No. I Basis of the	ne report	-				
Box No. II Priority	•					
	lishment of opinion with r	egard to novelty, inv	entive step and industrial ap	plicabi	ility	
Box No. IV Lack of unity of invention						
Box No. V Reasoned citations a	statement under Article 35(nd explanations supporting	2) with regard to nove g such statement	elty, inventive step or industr	rial app	licability;	
Box No. VI Certain do	cuments cited					
	n defects in the international application					
Box No. VIII Certain ob	servations on the internati	onal application				
Date of submission of the demand		Date of completio	n of this report			
19.05.200	04	,	13.01.2005			
Name and mailing address of the IPEA/J	P	Authorized officer		5V	8948	
Japan Patent Of	fice	TSUTOMU WATANABE				
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Box No. I	Basis of the report
	egard to the language, this report is based on the international application in the language in which it was filed, unless
*	vise indicated under this item.
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
	international preliminary examination (under Rules 55.2 and/or 55.3)
furnish	regard to the elements of the international application, this report is based on (replacement sheets which have been hed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed"
_	e not annexed to this report):
	the international application as originally filed/furnished
	the description:
	pages as originally filed/furnished
٠	pages* received by this Authority on
	pages* received by this Authority on
	the claims:
لــا	pages as originally filed/furnished
	pages* as amended (together with any statement) under Article 19
	pages* received by this Authority on
,	pages* received by this Authority on
	•
· L_	the drawings:
	pages as originally filed/furnished
	pages* received by this Authority on
	pages* received by this Authority on
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not bee made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Bo (Rule 70.2(c)).
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
* If item	4 applies, some or all of those sheets may be marked "superseded."





Statement			
Novelty (N)	Claims	11-18	YES
	Claims	1-10	NO
Inventive step (IS)	Claims	none	YES
	Claims	1-18	NO
Industrial applicability (IA)	Claims	1-18	YE
	Claims	none	NO

2. Citations and explanations (Rule 70.7)

D1: JP 5-30278 A (Hitachi, Ltd.) 1993.02.05

(Family none)

D2: WO 94-25954 A1 (Prime View HK,Ltd.) 1994.11.10

& JP 6-347753 A & CN 1122165 A

Claims 1-10

[0016] and [0022] of the reference D1 disclose the driving means applies a voltage, whole polarity is opposite to average polarity of a voltage making the thin film transistor in the OFF state, to the gate electrode in an arbitrary period.

Claims 11-18

See [0016] and [0022] of the reference D1. In addition, see the paragraph on page 3, line 29 to page 4, line 2 of the reference D2. D2 discloses a method for negative biased voltage to "drive back" a positive shifted V_th.